



G05-0070-SEQ

SEQUENCE LISTING

<110> Takada Pharmaceutical Company Limited

<120> Antibody and its use

<130> G05-0070

<140> PCT/JP2004/007667

<141> 2004-05-27

<150> JP2003-151577

<151> 2003-05-28

<160> 20

<210> 1

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> immunogen

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<210> 2

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> immunogen

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<210> 3

<211> 16

<212> PRT

<213> Artificial Sequence

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<223> immunogen

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<210> 4

<211> 23

<212> PRT

<213> Homo sapiens

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<210> 5

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<211> 30  
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 <213> Homo sapiens

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 Ala Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr Leu Trp  
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<210> 6  
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 <213> Rattus norvegicus

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 <213> Rattus norvegicus

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<210> 8  
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<210> 9  
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 <212> PRT  
 <213> Mus musculus

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<210> 10  
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<400> 10  
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 Ala Gly Leu Leu Met Gly Leu

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<210> 11  
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 <213> Sus scrofa

<400> 11  
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 Ala Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr Met Trp  
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<210> 12  
 <211> 14  
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 <213> Artificial Sequence

<220>  
 <223> Biotin-labeled peptide

<220>  
 <221> MOD\_RES  
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 <223> Xaa means biotin-labeled Cys modified with Biotin (Long Arm) Maleimide  
 (Vector Laboratories).

<400> 12  
 Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Xaa  
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<210> 13  
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<220>  
 <221> MOD\_RES  
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 <223> Xaa means biotin-labeled Cys modified with Biotin (Long Arm) Maleimide  
 (Vector Laboratories).

<400> 13  
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<210> 14  
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 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Biotin-labeled peptide

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 <221> MOD\_RES  
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 <223> Xaa means biotin-labeled Cys modified with Biotin (Long Arm) Maleimide  
 (Vector Laboratories).

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<400> 14

Xaa Ala Ser Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr Leu Trp  
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<210> 15

**<211> 328**

<212> PRT

<213> Homo sapiens

<400> 15

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20 25 30

Pro Ala Pro Leu Ala Val Ala Val Pro Val Val Tyr Ala Val Ile Cys  
35 40 45

Ala Val Gly Leu Ala Gly Asn Ser Ala Val Leu Tyr Val Leu Leu Arg  
50 55 60

Ala Pro Arg Met Lys Thr Val Thr Asn Leu Phe Ile Leu Asn Leu Ala  
65 70 75 80

Ile Ala Asp Glu Leu Phe Thr Leu Val Leu Pro Ile Asn Ile Ala Asp  
85 90 95

Phe Leu Leu Arg Gln Trp Pro Phe Gly Glu Leu Met Cys Lys Leu Ile  
100 105 110

Val Ala Ile Asp Gln Tyr Asn Thr Phe Ser Ser Leu Tyr Phe Leu Thr  
115 120 125Val Met Ser Ala Asp Arg Tyr Leu Val Val Leu Ala Thr Ala Glu Ser  
130 135 140

Arg Arg Val Ala Gly Arg Thr Tyr Ser Ala Ala Arg Ala Val Ser Leu  
145 150 155 160

Ala Val Trp Gly Ile Val Thr Leu Val Val Leu Pro Phe Ala Val Phe  
165 170 175

Ala Arg Leu Asp Asp Glu Gln Gly Arg Arg Gln Cys Val Leu Val Phe  
180 185 190

Pro Gln Pro Glu Ala Phe Trp Trp Arg Ala Ser Arg Leu Tyr Thr Leu  
195 200 205

Val Leu Gly Phe Ala Ile Pro Val Ser Thr Ile Cys Val Leu Tyr Thr  
210 215 220

Thr	Leu	Leu	Cys	Arg	Leu	His	Ala	Met	Arg	Leu	Asp	Ser	His	Ala	Lys
225					230					235					240
Leu	Gly	Arg	Ala	Leu	Leu	Arg	Val	Thr	Thr	Leu	Val	Val	Ala	Ala	Val

Ala Leu Glu Arg Ala Lys Lys Arg Val Thr Phe Leu Val Val Ala Ile  
245 250 255  
Leu Ala Val Cys Leu Cys Trp Thr Pro Tyr His Leu Ser Thr Val

Leu Ala Val Cys Leu Leu Cys Trp Thr Pro Tyr His Leu Ser Thr Val  
260 270  
Val Ala Leu Thr Thr Asp Leu Pro Glu Thr Pro Leu Val Ile Ala Ile

Val Ala Leu Thr Thr Asp Leu Pro Gln Thr Pro Leu Val Ile Ala Ile  
275 280 285  
Ser Tyr Phe Ile Thr Ser Leu Ser Tyr Ala Asp Ser Cys Leu Asp Pro

Ser Tyr Phe Ile Thr Ser Leu Ser Tyr Ala Asn Ser Cys Leu Asn Pro  
290 295 300  
Phe Leu Tyr Ala Phe Leu Asn Ala Ser Phe Arg Arg Asn Leu Arg Glu

Phe Leu Tyr Ala Phe Leu Asp Ala Ser Phe Arg Arg Asn Leu Arg Gln  
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Leu Ile Thr Cys Arg Ala Ala Ala  
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<210> 16

**<211> 984**

<212> DNA

<213> Homo sapiens

**<400> 16**

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ccagtgtgtct acgcggtgat ctgcgcctgt ggctctggcgg gcaactccgc cgtgctgtac 180

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ttctccagcc	tctacttctt	caccgctcatg	agcgccgacc	gctacctggt	ggtgttgagg	420
actgcggagt	cgcgccgggt	ggccggccgc	acctacagcg	ccgcgcgcgc	ggtgagcctg	480
gccgtgtggg	ggatcgtcac	actcgtcgtg	ctgcccttcg	cagtcttcgc	ccggctagac	540
gacgagcagg	gccggcgcca	gtgcgtgcta	gtctttccgc	agcccagggc	cttctggtgg	600
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&lt;210&gt; 17

&lt;211&gt; 333

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 17

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			20					25					30		
His	Asn	Ala	Thr	Phe	Ser	Glu	Pro	Leu	Pro	Phe	Leu	Tyr	Val	Leu	Leu
		35					40					45			
Pro	Ala	Val	Tyr	Ser	Gly	Ile	Cys	Ala	Val	Gly	Leu	Thr	Gly	Asn	Thr
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Ala	Val	Ile	Leu	Val	Ile	Leu	Arg	Ala	Pro	Lys	Met	Lys	Thr	Val	Thr
65					70					75					80
Asn	Val	Phe	Ile	Leu	Asn	Leu	Ala	Val	Ala	Asp	Gly	Leu	Phe	Thr	Leu
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Val	Leu	Pro	Val	Asn	Ile	Ala	Glu	His	Leu	Leu	Gln	Tyr	Trp	Pro	Phe
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Gly	Glu	Leu	Leu	Cys	Lys	Leu	Val	Leu	Ala	Val	Asp	His	Tyr	Asn	Ile
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	210					215					220				
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225					230					235					240
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Lys	Val	Thr	Val	Leu	Val	Leu	Val	Val	Leu	Ala	Val	Cys	Leu	Leu	Cys
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Pro	Gln	Thr	Pro	Leu	Val	Ile	Ser	Met	Ser	Tyr	Val	Ile	Thr	Ser	Leu
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Ser	Tyr	Ala	Asn	Ser	Cys	Leu	Asn	Pro	Phe	Leu	Tyr	Ala	Phe	Leu	Asp
305					310					315					320
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<210> 18
<211> 999
<212> DNA
<213> Homo sapiens
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aacgtgttca	tcttgaacct	ggcgtctgcg	gacgggtctt	tcacgtgggt	actgcccgtc		300
aacatcgcg	agcacctgct	gcagtactgg	cccttcgggg	agctgctctg	caagctgggtg		360
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<211> 329
<212> PRT
<213> Rattus norvegicus
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Pro	Leu	Pro 35	Gln	Pro	Leu	Ala	Val 40	Ala	Val	Pro	Val	Val 45	Tyr	Gly	Val
Ile	Cys 50	Ala	Val	Gly	Leu	Ala 55	Gly	Asn	Ser	Ala	Val 60	Leu	Tyr	Val	Leu
Leu 65	Arg	Thr	Pro	Arg	Met 70	Lys	Thr	Val	Thr	Asn 75	Val	Phe	Ile	Leu	Asn 80
Leu	Ala	Ile	Ala	Asp 85	Glu	Leu	Phe	Thr	Leu 90	Val	Leu	Pro	Ile	Asn 95	Ile
Ala	Asp	Phe	Leu 100	Leu	Arg	Arg	Trp	Pro 105	Phe	Gly	Glu	Val	Met 110	Cys	Lys
Leu	Ile	Val 115	Ala	Val	Asp	Gln	Tyr 120	Asn	Thr	Phe	Ser	Ser 125	Leu	Tyr	Phe
Leu	Ala 130	Val	Met	Ser	Ala	Asp 135	Arg	Tyr	Leu	Val	Val 140	Leu	Ala	Thr	Ala
Glu 145	Ser	Arg	Arg	Val	Ser 150	Gly	Arg	Thr	Tyr	Gly 155	Ala	Ala	Arg	Ala	Val 160
Ser	Leu	Ala	Val	Trp 165	Ala	Leu	Val	Thr	Leu 170	Val	Val	Leu	Pro	Phe 175	Ala
Val	Phe	Ala	Arg 180	Leu	Asp	Glu	Glu	Gln 185	Gly	Arg	Arg	Gln	Cys 190	Val	Leu
Val	Phe	Pro 195	Gln	Pro	Glu	Ala	Phe 200	Trp	Trp	Arg	Ala	Ser 205	Arg	Leu	Tyr
Thr	Leu 210	Val	Leu	Gly	Phe	Ala 215	Ile	Pro	Val	Ser	Thr 220	Ile	Cys	Ala	Leu
Tyr 225	Ile	Thr	Leu	Leu	Cys 230	Arg	Leu	Arg	Ala	Ile 235	Gln	Leu	Asp	Ser	His 240
Ala	Lys	Ala	Leu	Asp 245	Arg	Ala	Lys	Lys	Arg 250	Val	Thr	Leu	Leu	Val 255	Val
Ala	Ile	Leu	Ala	Val	Cys	Leu	Leu	Cys	Trp	Thr	Pro	Tyr	His	Leu	Ser

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Thr	Ile	Val	Ala	Leu	Thr	Thr	Asp	Leu	Pro	Gln	Thr	Pro	Leu	Val	Ile
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Gly	Ile	Ser	Tyr	Phe	Ile	Thr	Ser	Leu	Ser	Tyr	Ala	Asn	Ser	Cys	Leu
	290					295					300				
Asn	Pro	Phe	Leu	Tyr	Ala	Phe	Leu	Asp	Asp	Ser	Phe	Arg	Arg	Ser	Leu
305					310					315					320
Arg	Gln	Leu	Val	Ser	Cys	Arg	Thr	Ala							
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<210> 20

<211> 987

<212> DNA

<213> Rattus norvegicus

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ctgtacgtac	tgctgcgcac	gccgcgcatg	aagactgtta	ccaacgtgtt	cattctcaac	240
ctggctatcg	cggacgagct	cttcaccctc	gtgctgcccc	tcaacatcgc	ggacttcctg	300
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